

Sequence Listing

<110> Botstein,David

Desnoyers,Luc

Ferrara,Napoleone

Fong,Sherman

Gao,Wei-Qiang

Goddard,Audrey

Gurney,Austin L.

Pan,James

Roy,Margaret Ann

Stewart,Timothy A.

Tumas,Daniel

Watanabe,Colin K.

Wood,William I.

<120> Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same

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<151> 1999-02-09

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<150> PCT/US99/12252

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35 40 45
Lys Ile Tyr Asn Pro Ser Glu Gln Cys Cys Tyr Asp Asp Ala Ile
50 55 60
Leu Ser Leu Lys Glu Thr Arg Arg Cys Gly Ser Thr Cys Thr Phe
65 70 75
Trp Pro Cys Phe Glu Leu Cys Cys Pro Glu Ser Phe Gly Pro Gln
80 85 90
Gln Lys Phe Leu Val Lys Leu Arg Val Leu Gly Met Lys Ser Gln
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His Val Leu Tyr Pro
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Trp Lys Ser Lys Ser Gly Arg Gly Leu Ala Gly Arg Glu Pro Trp
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Ser Lys Leu Lys Gln Ala Trp Val Ser Gln Gly Gly Gly Ala Lys
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Gly Glu Lys Phe Ala Pro Gly Pro Ser Ala Cys Pro Cys Leu Cys
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Thr Glu Glu Gly Pro Leu Cys Ala Gln Pro Glu Cys Pro Arg Leu
185 190 195
His Pro Arg Cys Ile His Val Asp Thr Ser Gln Cys Cys Pro Gln
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Gln Thr Leu Glu Glu Phe Val Val Ser Pro Cys Glu Arg Cys Arg

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Pro Ile Cys Lys Asn Gly Pro Asn Cys Phe Ala Glu Thr Ala Val		
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Ile Pro Ala Gly Arg Glu Val Lys Thr Asp Glu Cys Thr Ile Cys		
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 Pro Val Gly Met Thr Glu Asn Cys Asn Arg Lys Asp Phe Leu Thr
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 Cys His Arg Gly Thr Thr Ile Met Thr His Gly Asn Leu Ala Gln
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 Glu Pro Thr Asp Trp Thr Thr Ser Asn Thr Glu Met Cys Glu Val

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Ala Ala Pro Val	Pro Gly Asp Arg Gln	Cys Pro Thr Cys Val Gln			
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Pro Leu Gly Thr	Cys Ser Ser Gly Ser	Pro Arg Met Thr Cys Pro			
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Arg Gly Ala Thr	His Cys Tyr Asp Gly	Tyr Ile His Leu Ser Gly			
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Gly Gly Leu Ser	Thr Lys Met Ser Ile	Gln Gly Cys Val Ala Gln			
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Pro Ser Ser Phe	Leu Leu Asn His Thr	Arg Gln Ile Gly Ile Phe			
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Ser Ala Arg Glu	Lys Arg Asp Val Gln	Pro Pro Ala Ser Gln His			
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Glu Gly Gly Gly	Ala Glu Gly Leu Glu	Ser Leu Thr Trp Gly Val			
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<211> 2387

<212> DNA

<213> Homo sapiens

<400> 17

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<211> 487

<212> PRT

<213> Homo sapiens

<400> 18

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Thr	Arg	Tyr	Pro	Thr	Val	Lys	Gln	Ile	Arg	Lys	Leu	Arg	Gln	Leu
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Gln Gly Leu Trp	Gln His Tyr His Pro	Gly Leu Pro Pro Pro Asp			
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Lys Asn Ala Thr	Ala Leu Tyr His Val	Glu Ala Phe Lys Thr Gly			
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Trp Cys Asp Val	Phe Asp Ile Asp Asp	Ala Lys Val Leu Glu Tyr			
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Leu Asn Asp Leu	Lys Gln Tyr Trp Lys	Arg Gly Tyr Gly Tyr Thr			
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Ile Asn Ser Arg	Ser Ser Cys Thr Leu	Phe Gln Asp Ile Phe Gln			
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His Leu Asp Lys	Ala Val Glu Gln Lys	Gln Arg Ser Gln Pro Ile			
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Ser Ser Pro Val	Ile Leu Gln Phe Gly	His Ala Glu Thr Leu Leu			
	365		370		375
Pro Leu Leu Ser	Leu Met Gly Tyr Phe	Lys Asp Lys Glu Pro Leu			
	380		385		390
Thr Ala Tyr Asn	Tyr Lys Lys Gln Met	His Arg Lys Phe Arg Ser			
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<211> 3554

<212> DNA

<213> Homo sapiens

<400> 19

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<212> DNA

<213> Homo sapiens

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<211> 1029

<212> PRT

<213> Homo sapiens

<400> 22

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Ile	Trp	Phe	Pro	Glu	Glu	Lys	Pro	Leu	Pro	Thr	Ala	Phe	Leu	Val
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Asp	Thr	Ser	Glu	Glu	Ala	Leu	Leu	Leu	Pro	Asp	Trp	Leu	Lys	Leu
				50					55					60
Arg	Met	Ile	Arg	Ser	Glu	Val	Leu	Arg	Leu	Val	Asp	Ala	Ala	Leu
				65					70					75
Gln	Asp	Leu	Glu	Pro	Gln	Gln	Leu	Leu	Leu	Phe	Val	Gln	Ser	Phe
				80					85					90
Gly	Ile	Pro	Val	Ser	Ser	Met	Ser	Lys	Leu	Leu	Gln	Phe	Leu	Asp
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Gln	Ala	Val	Ala	His	Asp	Pro	Gln	Thr	Leu	Glu	Gln	Asn	Ile	Met	
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Asp	Lys	Asn	Tyr	Met	Ala	His	Leu	Val	Glu	Val	Gln	His	Glu	Arg	
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Gly	Ala	Ser	Gly	Gly	Gln	Thr	Phe	His	Ser	Leu	Leu	Thr	Ala	Ser	
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Leu	Pro	Pro	Arg	Arg	Asp	Ser	Thr	Glu	Ala	Pro	Lys	Pro	Lys	Ser	
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Ser	Pro	Glu	Gln	Pro	Ile	Gly	Gln	Gly	Arg	Ile	Arg	Val	Gly	Thr	
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Gln	Leu	Arg	Val	Leu	Gly	Pro	Glu	Asp	Asp	Leu	Ala	Gly	Met	Phe	
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Leu	Gln	Ile	Phe	Pro	Leu	Ser	Pro	Asp	Pro	Arg	Trp	Gln	Ser	Ser	
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Ser	Pro	Arg	Pro	Val	Ala	Leu	Ala	Leu	Gln	Gln	Ala	Leu	Gly	Gln	
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Glu	Leu	Ala	Arg	Val	Val	Gln	Gly	Ser	Pro	Glu	Val	Pro	Gly	Ile	
				230					235					240	
Thr	Val	Arg	Val	Leu	Gln	Ala	Leu	Ala	Thr	Leu	Leu	Ser	Ser	Pro	
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His	Gly	Gly	Ala	Leu	Val	Met	Ser	Met	His	Arg	Ser	His	Phe	Leu	
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Ala	Cys	Pro	Leu	Leu	Arg	Gln	Leu	Cys	Gln	Tyr	Gln	Arg	Cys	Val	
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Pro	Gln	Asp	Thr	Gly	Phe	Ser	Ser	Leu	Phe	Leu	Lys	Val	Leu	Leu	
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Leu	Arg	Ala	Gln	Leu	Arg	Met	Leu	Ala	Ser	Gln	Ala	Ser	Ala	Gly	
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Ala	Leu	Ala	Phe	Arg	Gln	Asp	Leu	Glu	Val	Val	Ser	Ser	Thr	Val	
				350					355					360	
Arg	Ala	Val	Ile	Ala	Thr	Leu	Arg	Ser	Gly	Glu	Gln	Cys	Ser	Val	
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Glu	Pro	Asp	Leu	Ile	Ser	Lys	Val	Leu	Gln	Gly	Leu	Ile	Glu	Val	
				380					385					390	
Arg	Ser	Pro	His	Leu	Glu	Glu	Leu	Leu	Thr	Ala	Phe	Phe	Ser	Ala	

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Val Val Ser Ser	Leu Leu Leu Gln Glu	Glu Glu Pro Leu Ala Gly	
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Gly Lys Pro Gly	Ala Asp Gly Gly Ser	Leu Glu Ala Val Arg Leu	
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Gly Pro Ser Ser	Gly Leu Leu Val Asp	Trp Leu Glu Met Leu Asp	
	455	460	465
Pro Glu Val Val	Ser Ser Cys Pro Asp	Leu Gln Leu Arg Leu Leu	
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Phe Ser Arg Arg	Lys Gly Lys Gly Gln	Ala Gln Val Pro Ser Phe	
	485	490	495
Arg Pro Tyr Leu	Leu Thr Leu Phe Thr	His Gln Ser Ser Trp Pro	
	500	505	510
Thr Leu His Gln	Cys Ile Arg Val Leu	Leu Gly Lys Ser Arg Glu	
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Gln Arg Phe Asp	Pro Ser Ala Ser Leu	Asp Phe Leu Trp Ala Cys	
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Ile His Val Pro	Arg Ile Trp Gln Gly	Arg Asp Gln Arg Thr Pro	
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Gln Lys Arg Arg	Glu Glu Leu Val Leu	Arg Val Gln Gly Pro Glu	
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Leu Ile Ser Leu	Val Glu Leu Ile Leu	Ala Glu Ala Glu Thr Arg	
	575	580	585
Ser Gln Asp Gly	Asp Thr Ala Ala Cys	Ser Leu Ile Gln Ala Arg	
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Leu Pro Leu Leu	Leu Ser Cys Cys Cys	Gly Asp Asp Glu Ser Val	
	605	610	615
Arg Lys Val Thr	Glu His Leu Ser Gly	Cys Ile Gln Gln Trp Gly	
	620	625	630
Asp Ser Val Leu	Gly Arg Arg Cys Arg	Asp Leu Leu Leu Gln Leu	
	635	640	645
Tyr Leu Gln Arg	Pro Glu Leu Arg Val	Pro Val Pro Glu Val Leu	
	650	655	660
Leu His Ser Glu	Gly Ala Ala Ser Ser	Ser Val Cys Lys Leu Asp	
	665	670	675
Gly Leu Ile His	Arg Phe Ile Thr Leu	Leu Ala Asp Thr Ser Asp	
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Ser	Arg	Ala	Leu	Glu	Asn	Arg	Gly	Ala	Asp	Ala	Ser	Met	Ala	Cys	695	700	705
Arg	Lys	Leu	Ala	Val	Ala	His	Pro	Leu	Leu	Leu	Leu	Arg	His	Leu	710	715	720
Pro	Met	Ile	Ala	Ala	Leu	Leu	His	Gly	Arg	Thr	His	Leu	Asn	Phe	725	730	735
Gln	Glu	Phe	Arg	Gln	Gln	Asn	His	Leu	Ser	Cys	Phe	Leu	His	Val	740	745	750
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His	Gln	Gly	Ala	Leu	Trp	Asp	Cys	Leu	Leu	Ser	Phe	Ile	Arg	Leu	770	775	780
Leu	Leu	Asn	Tyr	Arg	Lys	Ser	Ser	Arg	His	Leu	Ala	Ala	Phe	Ile	785	790	795
Asn	Lys	Phe	Val	Gln	Phe	Ile	His	Lys	Tyr	Ile	Thr	Tyr	Asn	Ala	800	805	810
Pro	Ala	Ala	Ile	Ser	Phe	Leu	Gln	Lys	His	Ala	Asp	Pro	Leu	His	815	820	825
Asp	Leu	Ser	Phe	Asp	Asn	Ser	Asp	Leu	Val	Met	Leu	Lys	Ser	Leu	830	835	840
Leu	Ala	Gly	Leu	Ser	Leu	Pro	Ser	Arg	Asp	Asp	Arg	Thr	Asp	Arg	845	850	855
Gly	Leu	Asp	Glu	Glu	Gly	Glu	Glu	Glu	Ser	Ser	Ala	Gly	Ser	Leu	860	865	870
Pro	Leu	Val	Ser	Val	Ser	Leu	Phe	Thr	Pro	Leu	Thr	Ala	Ala	Glu	875	880	885
Met	Ala	Pro	Tyr	Met	Lys	Arg	Leu	Ser	Arg	Gly	Gln	Thr	Val	Glu	890	895	900
Asp	Leu	Leu	Glu	Val	Leu	Ser	Asp	Ile	Asp	Glu	Met	Ser	Arg	Arg	905	910	915
Arg	Pro	Glu	Ile	Leu	Ser	Phe	Phe	Ser	Thr	Asn	Leu	Gln	Arg	Leu	920	925	930
Met	Ser	Ser	Ala	Glu	Glu	Cys	Cys	Arg	Asn	Leu	Ala	Phe	Ser	Leu	935	940	945
Ala	Leu	Arg	Ser	Met	Gln	Asn	Ser	Pro	Ser	Ile	Ala	Ala	Ala	Phe	950	955	960
Leu	Pro	Thr	Phe	Met	Tyr	Cys	Leu	Gly	Ser	Gln	Asp	Phe	Glu	Val	965	970	975
Val	Gln	Thr	Ala	Leu	Arg	Asn	Leu	Pro	Glu	Tyr	Ala	Leu	Leu	Cys			

980	985	990
Gln Glu His Ala Ala Val Leu Leu His Arg Ala Phe Leu Val Gly		
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Met Tyr Gly Gln Met Asp Pro Ser Ala Gln Ile Ser Glu Ala Leu		
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Arg Ile Leu His Met Glu Ala Val Met		
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<210> 24
 <211> 548
 <212> PRT
 <213> Homo sapiens

<400> 24
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 20 25 30

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Leu	Arg	Asp	Arg	Leu	His	Ala	Ala	Glu	Gln	Glu	Ser	Leu	Lys	Arg		50	55	60
Ser	Lys	Glu	Leu	Asn	Leu	Val	Leu	Asp	Glu	Ile	Lys	Arg	Ala	Val		65	70	75
Ser	Glu	Arg	Gln	Ala	Leu	Arg	Asp	Gly	Asp	Gly	Asn	Arg	Thr	Trp		80	85	90
Gly	Arg	Leu	Thr	Glu	Asp	Pro	Arg	Leu	Lys	Pro	Trp	Asn	Gly	Ser		95	100	105
His	Arg	His	Val	Leu	His	Leu	Pro	Thr	Val	Phe	His	His	Leu	Pro		110	115	120
His	Leu	Leu	Ala	Lys	Glu	Ser	Ser	Leu	Gln	Pro	Ala	Val	Arg	Val		125	130	135
Gly	Gln	Gly	Arg	Thr	Gly	Val	Ser	Val	Val	Met	Gly	Ile	Pro	Ser		140	145	150
Val	Arg	Arg	Glu	Val	His	Ser	Tyr	Leu	Thr	Asp	Thr	Leu	His	Ser		155	160	165
Leu	Ile	Ser	Glu	Leu	Ser	Pro	Gln	Glu	Lys	Glu	Asp	Ser	Val	Ile		170	175	180
Val	Val	Leu	Ile	Ala	Glu	Thr	Asp	Ser	Gln	Tyr	Thr	Ser	Ala	Val		185	190	195
Thr	Glu	Asn	Ile	Lys	Ala	Leu	Phe	Pro	Thr	Glu	Ile	His	Ser	Gly		200	205	210
Leu	Leu	Glu	Val	Ile	Ser	Pro	Ser	Pro	His	Phe	Tyr	Pro	Asp	Phe		215	220	225
Ser	Arg	Leu	Arg	Glu	Ser	Phe	Gly	Asp	Pro	Lys	Glu	Arg	Val	Arg		230	235	240
Trp	Arg	Thr	Lys	Gln	Asn	Leu	Asp	Tyr	Cys	Phe	Leu	Met	Met	Tyr		245	250	255
Ala	Gln	Ser	Lys	Gly	Ile	Tyr	Tyr	Val	Gln	Leu	Glu	Asp	Asp	Ile		260	265	270
Val	Ala	Lys	Pro	Asn	Tyr	Leu	Ser	Thr	Met	Lys	Asn	Phe	Ala	Leu		275	280	285
Gln	Gln	Pro	Ser	Glu	Asp	Trp	Met	Ile	Leu	Glu	Phe	Ser	Gln	Leu		290	295	300
Gly	Phe	Ile	Gly	Lys	Met	Phe	Lys	Ser	Leu	Asp	Leu	Ser	Leu	Ile		305	310	315
Val	Glu	Phe	Ile	Leu	Met	Phe	Tyr	Arg	Asp	Lys	Pro	Ile	Asp	Trp				

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Leu Leu Asp His 335	Ile Leu Trp Val Lys Val Cys Asn Pro Glu Lys 340	345
Asp Ala Lys His 350	Cys Asp Arg Gln Lys Ala Asn Leu Arg Ile Arg 355	360
Phe Lys Pro Ser 365	Leu Phe Gln His Val Gly Thr His Ser Ser Leu 370	375
Ala Gly Lys Ile 380	Gln Lys Leu Lys Asp Lys Asp Phe Gly Lys Gln 385	390
Ala Leu Arg Lys 395	Glu His Val Asn Pro Pro Ala Glu Val Ser Thr 400	405
Ser Leu Lys Thr 410	Tyr Gln His Phe Thr Leu Glu Lys Ala Tyr Leu 415	420
Arg Glu Asp Phe 425	Phe Trp Ala Phe Thr Pro Ala Ala Gly Asp Phe 430	435
Ile Arg Phe Arg 440	Phe Phe Gln Pro Leu Arg Leu Glu Arg Phe Phe 445	450
Phe Arg Ser Gly 455	Asn Ile Glu His Pro Glu Asp Lys Leu Phe Asn 460	465
Thr Ser Val Glu 470	Val Leu Pro Phe Asp Asn Pro Gln Ser Asp Lys 475	480
Glu Ala Leu Gln 485	Glu Gly Arg Thr Ala Thr Leu Arg Tyr Pro Arg 490	495
Ser Pro Asp Gly 500	Tyr Leu Gln Ile Gly Ser Phe Tyr Lys Gly Val 505	510
Ala Glu Gly Glu 515	Val Asp Pro Ala Phe Gly Pro Leu Glu Ala Leu 520	525
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<210> 38

<211> 28

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<223> Synthetic Oligonucleotide Probe

<400> 38

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